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From: Ben Cope/R10/USEPA/US
To: Chris Berger <bergerc@cecs.pdx.edu>
Copy To: Brian Nickel/R10/USEPA/US@EPA
Delivered Date: 09/14/2009 02:10 PM PDT
Subject: Fw: Stateline NH4 for Proposed TMDL v Dilks Simulation

Hi Chris -

Please see message from Brian Nickel below. Do you think the early-in-year DO difference is plausible or an artifact of the model setup (e.g., pump function, etc.)?

Just your "at first glance" impression is fine for now. Thanks. -BC

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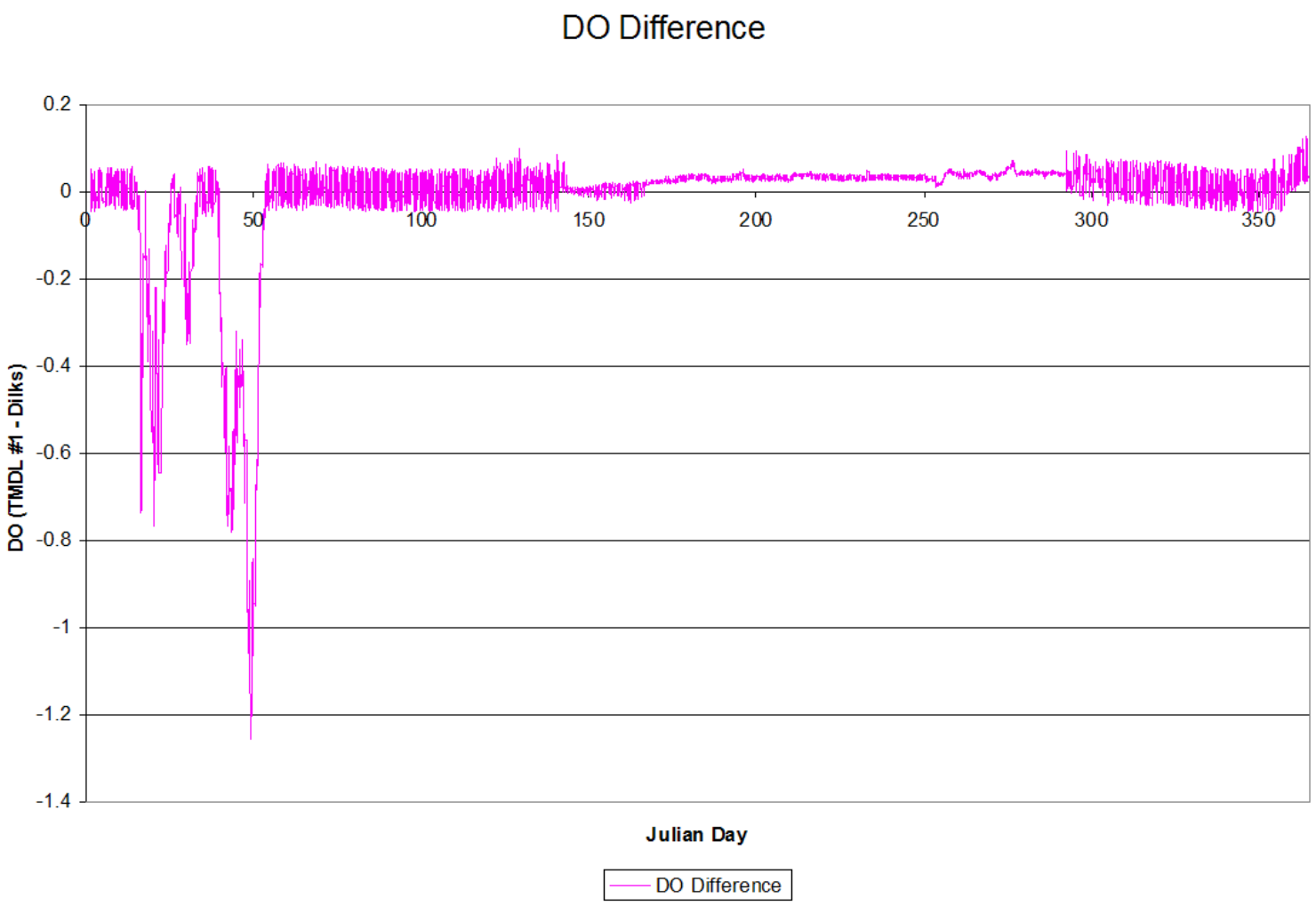
----- Forwarded by Ben Cope/R10/USEPA/US on 09/14/2009 02:07 PM -----

Brian Nickel/R10/USEPA/US 09/14/2009 01:44 PM	To: Ben Cope/R10/USEPA/US@EPA cc: Subject: Re: Stateline NH4 for Proposed TMDL v Dilks Simulation

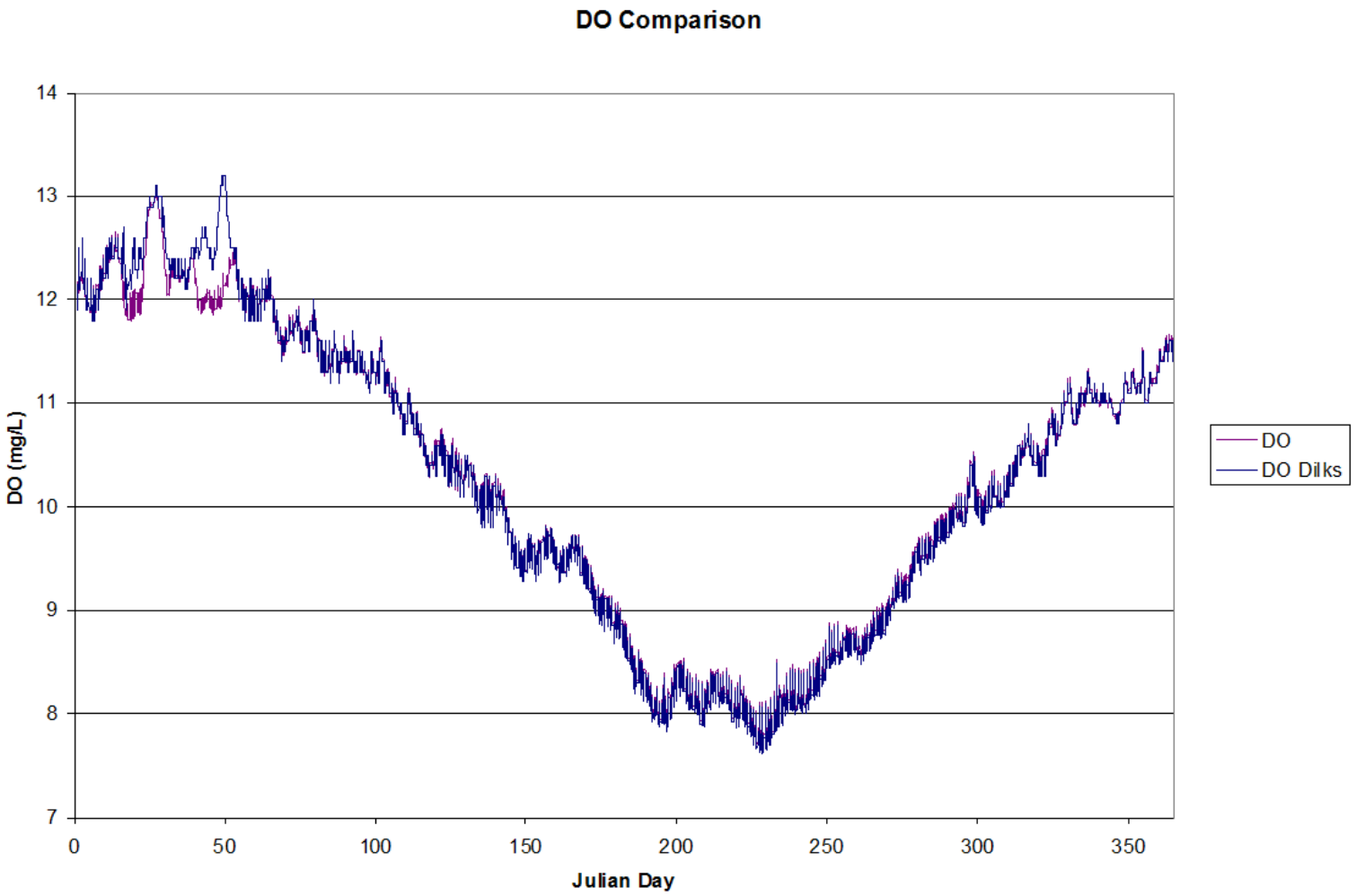
Hi Ben,

There are some odd DO results at the state line.

Here is a chart of the DO difference (TMDL #1 - Dilks). Negative values mean the increased ammonia run produced higher DO. Most of the time the difference is very small (<0.1 mg/L in either direction), as I expected, but sometimes, around Day 50 and before, the DO under the Dilks scenario is < 1 mg/L **higher** than under TMDL #1 (negative on the graph).



Here is a chart of actual DO for the Dilks scenario and TMDL #1, together:



Thoughts?

Thanks,

Brian Nickel, E.I.T.

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